ELSEVIER

Journal of Volcanology and Geothermal Research 73 (1996) 309

Journal of volcanology and geothermal research

Contents Volume 73, 1996

Research Papers

The structure of basaltic scoria and reticulite and inferences for vesiculation, foam formation, and fragmentation in lava fountains
M.T. Mangan and K.V. Cashman 1

On the dispersal of clasts from volcanic craters during small explosive eruptions
S.M. Bower and A.W. Woods 19

Numerical modelling of stress generation and microfracturing of vesicle walls in glassy rocks
J.E. Mungall, N.S. Bagdassarov, C. Romano and D.B. Dingwell. 33

Comparison of the shapes and sizes of seafloor volcanoes on Earth and "pancake" domes on Venus
D.K. Smith 47

Rates and factors of stratovolcano degradation in a continental climate: a complex morphometric analysis for nineteen Neogene/Quaternary crater remnants in the Carpathians
D. Karátson. 65

Geochemical characterisation of hydrothermally altered ignimbrites in active geothermal fields from the central Taupo Volcanic Zone, New Zealand
G. Bignall, P.R.L. Browne and P.R. Kyle 79

The $\delta^{34}S$ composition of sulfates and sulfides at the Los Humeros geothermal system, Mexico and their application to physicochemical fluid evolution
R.G.M. Serrano, B. Jacquier and M. Arnold 99

Soil ^{222}Rn pulse during the initial phase of the June–August 1995 eruption of Cerro Negro, Nicaragua
C. Connor, B. Hill, P. LaFemina, M. Navarro and M. Conway. 119

Temporal change in coda Q at Nevado Del Ruiz Volcano, Colombia
J.M. Londoño. 129

K-Ar ages and magnetic stratigraphy of a hotspot-induced, fast grown oceanic island: El Hierro, Canary Islands
H. Guillou, J.C. Carracedo, F. Pérez Torrado and E. Rodriguez Badiola. 141

Interfacial turbulent mixing in stratified magma reservoirs
S.S.S. Cardoso and A.W. Woods 157

Long-term geochemical surveillance of fumaroles at Showa-Shinzan dome, Usu volcano, Japan
R.B. Symonds, Y. Mizutani and P.H. Briggs 177

Oxygen isotopic and geochemical evidence for a short-lived, high-temperature hydrothermal event in the Chegem caldera, Caucasus Mountains, Russia
C. Gazis, H.P. Taylor Jr., K. Hon and A. Tsvetkov 213

Redistribution of Pb and other volatile trace metals during eruption, devitrification, and vapor-phase crystallization of the Bandelier Tuff, New Mexico
J. Stimac, D. Hickmott, R. Abell, A.C.L. Larocque, D. Broxton, J. Gardner, S. Chipera, J. Wolff and E. Gauerke 245

Shallow Mesozoic layered gabbros of the Shadow Mountains, San Bernardino County, California
D.K. Smith and L.H. Cohen 267

Large-magnitude Middle Ordovician volcanic ash falls in North America and Europe: dimensions, emplacement and post-emplacement characteristics
W.D. Huff, D.R. Kolata, S.M. Bergström and Y.-S. Zhang. 285

Medium-term anomalies in groundwater temperature before 1991–1993 Mt. Etna eruption
P. Bonfanti, W. D'Alessandro, G. Dongarrà, F. Parello and M. Valenza. 303